



CDF Operations Summary

Phillip Koehn

Jan 06, 2003

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-
- **Store Statistics**
 - **Today's Supervised Access**
 - **Overview of Plans for January Shutdown**



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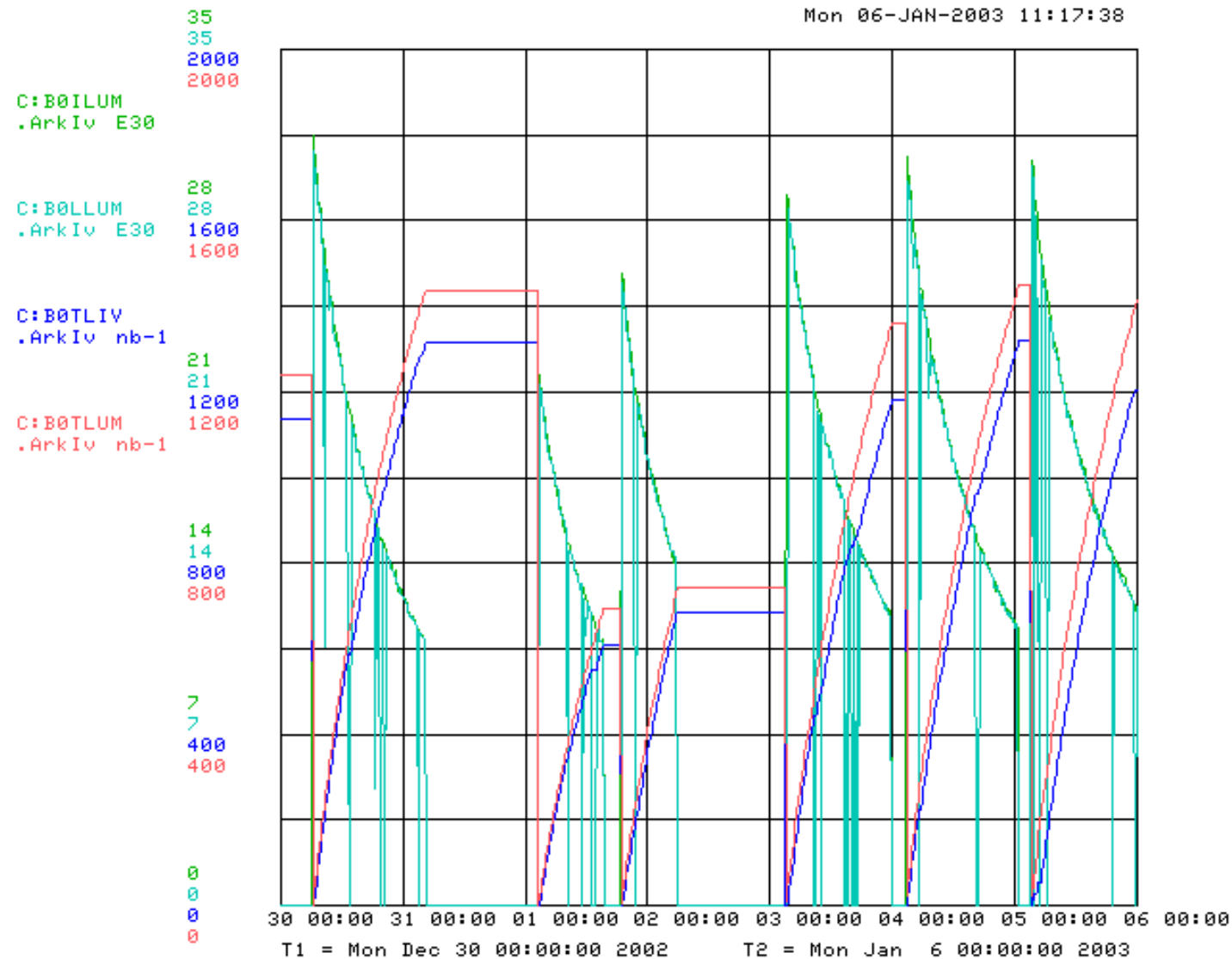
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- ~ 6.3 pb⁻¹ data to tape @ efficiency = 89 %

<i>Store</i>	<i>Start</i>	<i>Duration (hr)</i>	<i>Init. Lum (E30)</i>	<i>B0TLUM (nb⁻¹)</i>	<i>B0TLIV (nb⁻¹)</i>	<i>Eff. (%)</i>	<i>Comments</i>
2114	12/30 Mon	22.2	31.7	1437.2	1314.8	91.5	Fcal00 crate, bmu & tof hv trips, quench
2121	01/01 Wed	12.8	22.2	694.7	607.5	87.4	ISL ladder readout problem <1hr down.
2123	01/01 Wed	11.1	26.1	741.3	686.9	92.7	Ccu trip, fe-readout, ISL ladder
2134	01/03 Fri	20.9	29.9	1361.8	1181.6	86.8	CMU LV ps, plug HV trip, L2 trigger
2136	01/04 Sat	22.2	31.1	1449.2	1319.6	91.1	Fcal00 crate, bsu trip Recovered SVT wedge between stores
2138	01/05 Sun	25.4	31.1	1598.2	1390.1	87.0	FE-readout, looong
		21		1415.6	1209.3	85.4	daq run, solenoid trip
				7099.8	6319.7	89.0%	



Stores 12/30-01/06





Summary of Today's Access

- “As Found” survey of west low beta quads - preparation for shielding work.
- Check a +5V LV power supply for CMU Wedge 7W.
- Silicon checks – preparation for shutdown work to recover more Si wedges.
- Reseated a TOF admem card to try recovering channels.
- Tested a more gentle recovery method – other than power cycling - for Hadron TDC Discriminator cards.
- Fixed a couple BSU cable swaps.
- Check calorimetry crates (wedges 13W & 16E) not responding to calibrations properly.
- Upstairs:
 - Tested some power supply monitoring functionality.
 - L3 Work - Replaced a broken ATM and ethernet cards to recover a L3 subfarms. Deadtime not a an issue.
 - Tested faster vme cpu in XTRP crate
 - Timing studies for plug calorimeter calibrations.
 - Detector checkout & calibrations as work in the hall is performed...



CDF January Access Plan

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Major tasks include:

- **Installation of shielding around West (A-side) low beta quads**
- **ISL Cooling work -- complete opening of last 2.5 epoxy blocked line with laser**
- **Replace photomultiplier tubes on West CLC**
- **General Maintenance**



Required Resources outside of CDF

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– BD Cryo Help

- Need to Relocate Kautzky Valves on low beta's (3 days of work scheduled to begin 1/13/03)

– Survey Crew help

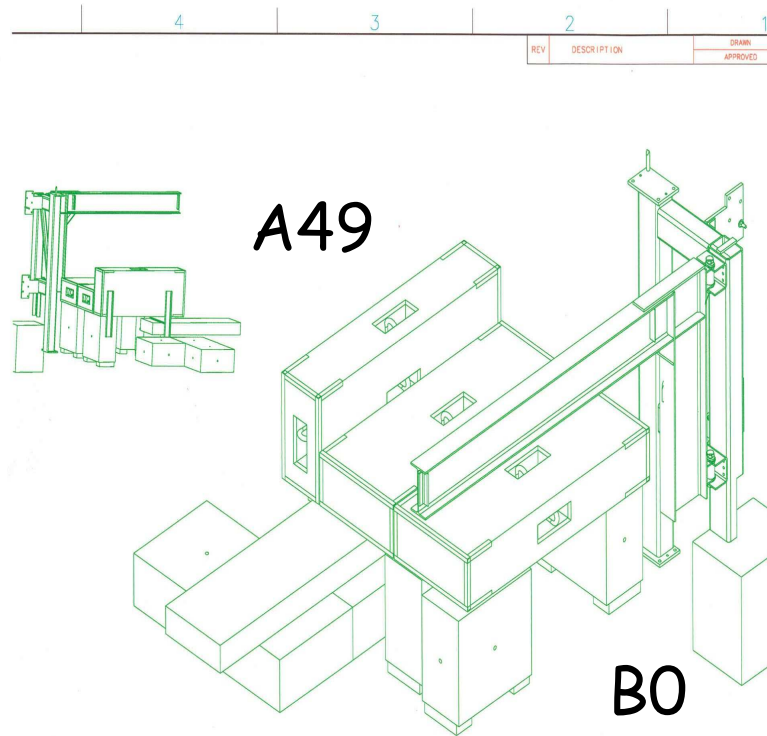
- As-found of Low Beta's (done today)
- As-found after shielding mods are completed – 2 days of effort to be scheduled anytime AFTER 1/25/03
- Survey of bellows beampipe – ½ day ~1/27/03

– BD Mechanical Help

- Removal/Installation of poly bags around A48 low beta's, 1/13 and after final survey
- Removal and installation of A-side bellows beampipe. Removal 1/13/03, Installation after 1/27/03



Actual Shielding Plan



Alcove Section
(temp. shielding blocks)



**Bridge
Section**



Current Schedule Highlights

– Week of January 13th

- Opening up the detector steel
- Opening endplugs
- Removal of A-side bellows beampipe
- ISL cooling work begins
- Kautzky Valve modifications
- Begin Installation of shielding “bridge”

– Week of January 20th

- CLC phototube replacement
- Complete shielding Installation
- Complete ISL Laser Work

– Week of January 27th

- Final Survey of low beta quads
 - Reinstall bellows beampipe + survey
 - Close up endplugs
 - Power Solenoid and Begin Cosmic Ray Run
 - Close steel
- With Contingency, still done by Feb 1.

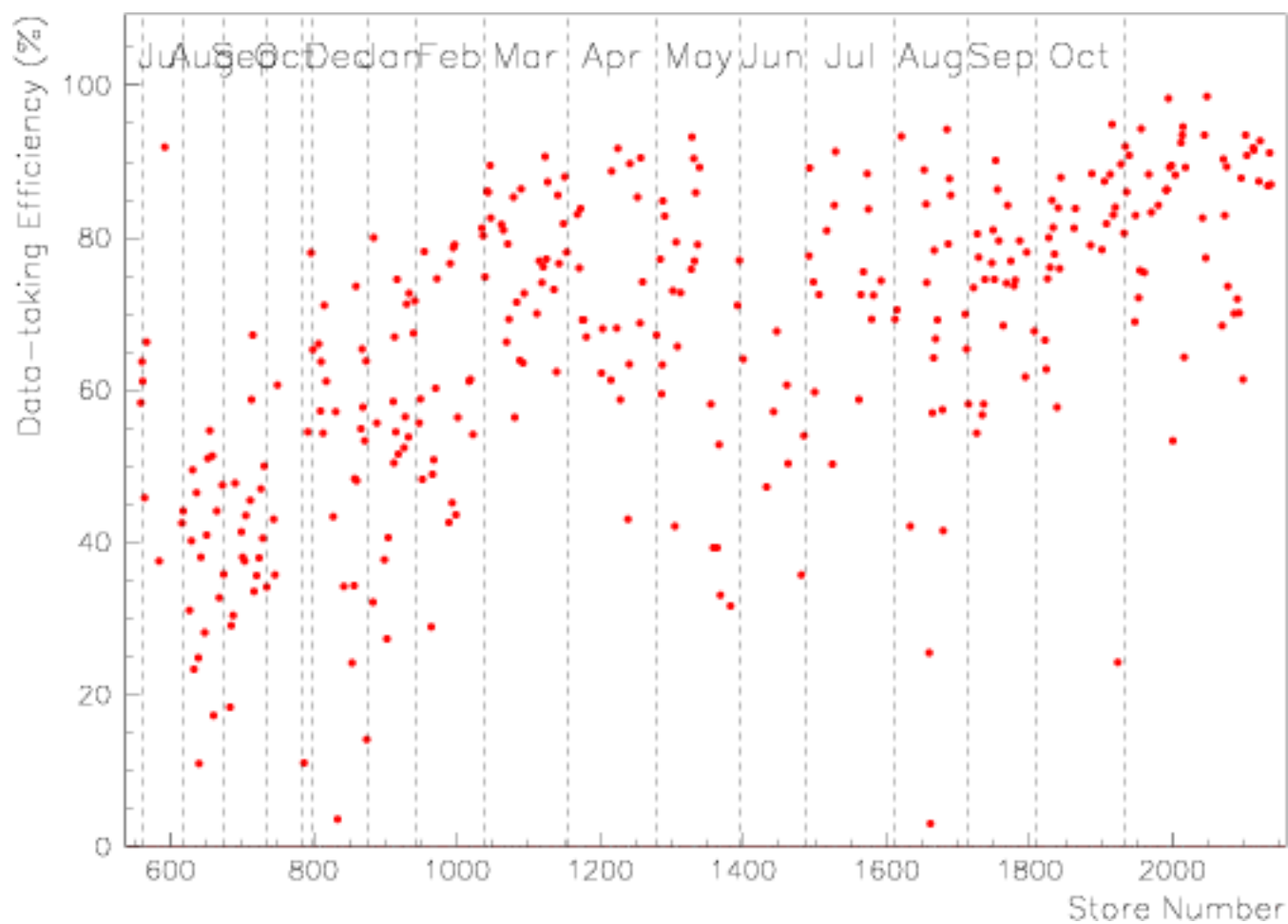


Summary

- **Good week of data taking.**
 - *6.3 pb⁻¹ data to tape @ efficiency of 89 %*
 - *100% w/Silicon integrated*
- **Access Today.**
 - Nothing pressing to fix, mostly preparations for the shutdown next week.
- **Overview of our plans for shutdown.**



RunII Daq Efficiency





RunII Integrated Luminosity

